



IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**PATENT APPLICATION**

Applicant: **Vlad MITLIN**

Case: **3Com-86(3611.DSL.US.P)**

Serial No.: **09/865,763**

Filed: **May 25, 2001**

Group Art Unit: **2184**

Confirmation No.: **5768**

Examiner:

Title: **METHOD AND APPARATUS FOR EVALUATING ERROR CONTROL  
PARAMETERS OF SELF-SIMILAR CONSTELLATIONS**

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

S I R:

**INFORMATION DISCLOSURE STATEMENT**

The applicant respectfully requests that the following references be considered in the examination of the above-identified application. A copy of each reference is enclosed.

**United States Patents**

| <u>Patent Number</u> | <u>Inventor</u> | <u>Date Issued</u> | <u>Class</u> |
|----------------------|-----------------|--------------------|--------------|
| AA. 6,075,821        | Kao et al       | June 13, 2000      | 375/260      |
| AB. 6,072,779        | Tzannes et al   | June 6, 2000       | 370/252      |
| AC. 6,064,692        | Chow            | May 16, 2000       | 375/219      |
| AD. 5,852,633        | Levin et al     | Dec. 22, 1998      | 375/260      |
| AE. 5,479,447        | Chow et al      | Dec. 26, 1995      | 375/260      |

## Publications

- AF. J.J. Binney, et al, The Theory of Critical Phenomena: An Introduction to the Renormalization Group, (©1992 Oxford Science Publications, Oxford) pp. 27-30 and Chapter 5 pp. 113-157.
- AG. P.S. Chow, "Bandwidth Optimized Digital Transmission Techniques for Spectrally Shaped Channels with Impulse Noise", Ph.D. thesis, Stanford University, May 1993, pages ii-187.
- AH. A. Cherkaev, "Variational Methods for Structural Optimization", Applied Mathematical Sciences Vol. 140.
- AI. M.J. Feigenbaum, "The Transition to Aperiodic Behavior in Turbulent Systems", Communications in Mathematical Physics, 1980, pages 65-86.
- AJ. I.S. Gradshteyn, Table of Integrals, Series, and Products - 6<sup>th</sup> Edition, (©2000, Academic Press).
- AK. IEEE Std 802.11a-1999: Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: High-speed Physical Layer in the 5 GHz Band, IEEE, New York, 1999, pages 3-82.
- AL. ITU Recommendation G.992.1: Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva 1999, pages i-242.
- AM. ITU Recommendation G.992.2: Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva 1999, pages i-167.
- AN. T.J. Lunn et al, "Number of Neighbours for Staged Decoding of Block Coded Modulation", IEE Electronic Letters, 1993, Vol. 29, No. 21, pp. 1830 - 1831.
- AO. B.B. Mandelbrot, The Fractal Geometry of Nature, (©1983, W.N. Freeman and Co., New York) pp. 1-57.

- AP. J. Proakis, Digital Communications, (©1995 McGraw-Hill, New York) pages 260-263, 278-282, 441, and 464-67.
- AQ. D. Bertsekas et al, Data Networks, (©1992, Prentice Hall), pages 64-86 and 149-240.
- AR. J.A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, May 1990, pages 5-14.
- AS. W.Y. Chen, DSL: Simulation Techniques and Standards Development for Digital Subscriber Line Systems, (©1998, MacMillan Technical Publishing), pages 465, 11, and 119-121.
- AT. P.S. Chow et al, "A Practical Discrete Multitone Transceiver Loading Algorithm for Data Transmission Over Spectrally Shaped Channels", IEEE Transactions on Communications, Vol. 43, No. 2/3/4, February/March/April 1995, pages 773-775.
- AU. N.G. de Bruijn, Asymptotic Methods in Analysis, (©1981, Dover Publications, Inc.), pages 22-23.
- AV. F.J. MacWilliams et al, Chapter 10, Section 10, "Reed-Solomon and Justesen Codes - Decoding RS codes", The Theory of Error-Correcting Codes, (©1977, Elsevier Science), page 306.
- AW. V.S. Mitlin, Nonlinear Dynamics of Reservoir Mixtures, (©1993, CRC Press), pages 173-177.
- AX. Numerical Recipes in C: The Art of Scientific Computing, (©1992 Cambridge University Press) pages 212-221.

#### REMARKS

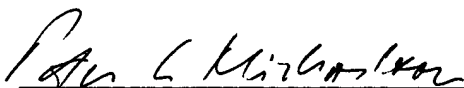
Under rule 37 C.F.R. 1.98(a) (effective March 16, 1992), since all of the above-cited references are in the

English language, the applicant submits that no specific comments are necessary for any of these.

For the Examiner's convenience, the applicants have attached a completed modified Form PTO/SB/08A&B form hereto.

Respectfully submitted,

September 5, 2001



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**CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)**

I hereby certify that this correspondence is being deposited on **September 6, 2001**, with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.



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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **2** of **3**

### Complete if Known

|                        |                         |
|------------------------|-------------------------|
| Application Number     | 09/865,763              |
| Filing Date            | May 25, 2001            |
| First Named Inventor   | Vlad MITLIN             |
| Group Art Unit         | 2184                    |
| Examiner Name          |                         |
| Attorney Docket Number | 3Com-86 (3611.DSL.US.P) |

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials <sup>*</sup> | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------------------|-----------------------|---|----------------|
| ✓                              | AF                    | J.J. Binney, et al, The Theory of Critical Phenomena: An Introduction to the Renormalization Group, (©1992 Oxford Science Publications, Oxford) pp. 27-30 and Chapter 5 pp. 113-157.  |                |
| ✓                              | AG                    | P.S. Chow, "Bandwidth Optimized Digital Transmission Techniques for Spectrally Shaped Channels with Impulse Noise", Ph.D. thesis, Stanford University, May 1993, pages ii-187.  |                |
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| ✓                              | AL                    | ITU Recommendation G.992.1: Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva 1999, pages i-242.   |                |
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| /                  | AQ                    | D. Bertsekas et al, Data Networks, (©1992, Prentice Hall), pages 64-86 and 149-240.   |                |
| /                  | AR                    | J.A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, May 1990, pages 5-14.   |                |
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| /                  | AU                    | N.G. de Bruijn, Asymptotic Methods in Analysis, (©1981, Dover Publications, Inc.), pages 22-23.   |                |
| /                  | AV                    | F.J. MacWilliams et al, Chapter 10, Section 10, "Reed-Solomon and Justesen Codes - Decoding RS codes", The Theory of Error-Correcting Codes, (©1977, Elsevier Science), page 306.   |                |
| /                  | AW                    | V.S. Mitlin, Nonlinear Dynamics of Reservoir Mixtures, (©1993, CRC Press), pages 173-177.   |                |
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